IN THE CLAIMS:

1. (Currently Amended) A phase-locked loop (PLL), comprising:

a digital feedback delay line having a plurality of taps <u>cascaded from an input to an output</u> with each of said taps having a fixed delay; and

tap selection logic, coupled to said digital feedback delay line, for <u>delivering a single signal to</u>

<u>activate activating</u> one of said plurality of taps and thereby insert a corresponding delay into said

<u>PLL</u>, <u>said corresponding delay capable of including fixed delays associated with multiple of said plurality of taps</u>.

- 2. (Original) The PLL as recited in Claim 1 wherein each of said taps comprises a multiplexer.
- 3. (Original) The PLL as recited in Claim 2 wherein said multiplexer is a 2:1 input multiplexer.
- 4. (Original) The PLL as recited in Claim 1 wherein said digital feedback delay line has at least four of said taps.
- (Original) The PLL as recited in Claim 4 wherein said digital feedback delay line has
 of said taps.
- 6. (Currently Amended) The PLL as recited in Claim 1 wherein said-plurality of taps are caseaded-from an input to an output and said corresponding delay results from fixed delays associated with said activated one of said plurality of taps and subsequent ones of said plurality of taps between said activated one and said output.
 - 7. (Original) The PLL as recited in Claim 1 wherein said tap selection logic comprises a

Appl. No. 09/977,045 Reply to Examiner's Action dated 08/24/2005

register.

8. (Currently Amended) A method of programmably adjusting a phase of a reference clock signal, comprising:

passing said reference clock signal through a phase-locked loop (PLL) that includes a digital feedback delay line having a plurality of taps cascaded from an input to an output with each of said taps having a fixed delay; and

delivering a single signal to activate activating one of said plurality of taps to insert a corresponding delay into said PLL, said corresponding delay capable of including fixed delays associated with multiple of said plurality of taps.

- 9. (Original) The method as recited in Claim 8 wherein each of said taps comprises a multiplexer.
- 10. (Original) The method as recited in Claim 9 wherein said multiplexer is a 2:1 input multiplexer.
- 11. (Original) The method as recited in Claim 8 wherein said digital feedback delay line has at least four of said taps.
- 12. (Original) The method as recited in Claim 11 wherein said digital feedback delay line has 32 of said taps.
- 13. (Currently Amended) The method as recited in Claim 8 wherein said plurality of taps

 are caseaded from an input to an output and said corresponding delay results from fixed delays

 associated with said activated one of said plurality of taps and subsequent ones of said plurality of

 taps between said activated one and said output.

Appl. No. 09/977,045 Reply to Examiner's Action dated 08/24/2005

14. (Currently Amended) A synchronous sequential logic circuit, comprising: a system clock that produces a reference clock signal;

a plurality of interconnected modules that operate synchronously to communicate data therebetween, each of said plurality of interconnected modules containing a phase-locked loop (PLL) that receives said reference clock signal and includes:

a digital feedback delay line having a phrality of taps <u>cascaded from an input to an</u> output with each of said taps having a fixed delay, and

tap selection logic, coupled to said digital feedback delay line, for <u>delivering a single</u>

<u>signal to activate activating</u> one of said plurality of taps and thereby insert a corresponding delay into said PLL, <u>said corresponding delay capable of including fixed delays associated</u>

with multiple of said plurality of taps.

- 15. (Original) The circuit as recited in Claim 14 wherein each of said taps comprises a multiplexer.
- 16. (Original) The circuit as recited in Claim 15 wherein said multiplexer is a 2:1 input multiplexer.
- 17. (Original) The circuit as recited in Claim 14 wherein said digital feedback delay line has at least four of said taps.
- 18. (Original) The circuit as recited in Claim 17 wherein said digital feedback delay line has 32 of said taps.
- 19. (Currently Amended) The circuit as recited in Claim 14 wherein said tap selection logic activates only one of said plurality of taps and said corresponding delay includes a fixed delay

Appl. No. 09/977,045 Reply to Examiner's Action dated 08/24/2005

of said only one and at least another fixed delay of one other plurality of taps.

20. (Original) The circuit as recited in Claim 14 wherein said tap selection logic comprises a register.